

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-5 (canceled)

6. (currently amended): A biosensor comprising a substrate coated with a film selected from the group consisting of polystyrene, polyethylene, polypropylene, polyethylene terephthalate, polyvinyl chloride, polymethyl methacrylate, polyester and nylon, and whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state, the film being on a surface of the substrate to be contacted with a physiologically active substance.

7. (canceled)

8. (original): The biosensor according to claim 6, wherein the film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state comprises a high polymer comprising 50% by weight or more of monomers having a solubility in water of 20% by weight or less.

9. (canceled)

10. (currently amended): The biosensor according to claim 6, which comprises a metal surface or metal film coated with ~~a-~~the film whose swelling degree in pure water at 25°C is between 1 and 5 with respect to the film thickness in a dry state.

| 11. (currently amended): The biosensor according to ~~claim 6~~ claim 10, wherein the metal surface or metal film comprises a free-electron metal selected from a group consisting of gold, silver, copper, platinum and aluminum.

12-40 (canceled)

41. (new): The biosensor according to claim 6, wherein the coating thickness of the film is between 10 angstroms and 3,000 angstroms.